

Title (en)

GAMMA CAMERA DEAD TIME COMPENSATION USING A COMPANION RADIOISOTOPE

Title (de)

GAMMAKAMERA-TOTZEITKOMPENSIERUNG UNTER VERWENDUNG EINES BEGLEITENDEN RADIOISOTOPS

Title (fr)

COMPENSATION DE TEMPS MORT DE CAMÉRA GAMMA UTILISANT UN COMPAGNON RADIO-ISOTOPE

Publication

EP 3104196 A1 20161214 (EN)

Application

EP 16172937 A 20160603

Priority

- IB 2015054323 W 20150608
- US 201514964710 A 20151210

Abstract (en)

For dead time compensation, a point source with a same radioisotope as used for the radiopharmaceutical is positioned by the detector. Counts from the point source without the patient and with the patient are used to correct the system or detector sensitivity. Reconstruction is performed with the sensitivity normalized for count rate, compensating for the dead time and spectral broadening.

IPC 8 full level

G01T 1/17 (2006.01); **G01T 1/40** (2006.01)

CPC (source: EP)

G01T 1/171 (2013.01); **G01T 1/40** (2013.01)

Citation (search report)

- [A] WO 9954754 A2 19991028 - ADAC LAB [US], et al
- [A] EP 0444324 A2 19910904 - TOSHIBA KK [JP]
- [A] WO 2008088386 A2 20080724 - THERMO ELECTRON CORP [US], et al
- [A] GB 2463707 A 20100324 - SYMETRICA LTD [GB]
- [A] US 2014371580 A1 20141218 - BHATTACHARYA MANOJEET [US]

Cited by

CN111551981A; CN111317498A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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